SECRET

Declass Review by NGA.

NPIC/PADS/D/6-7/3 7 February 1966

MEMORANDUM FOR: Chief, Collateral Support Division, NPIC

SUBJECT:

Video Tupe Equipment

REFERENCE:

Letter NPIC/CSD625-65 of 6 December 1965

- 1. Initial investigation of Video Tape equipment and procedures has indicated the following:
- (a) The problem area for obtaining good quality hard copy from magnetic Video Tape is the play back equipment itself, not the photographic hard copy reproduction technique.
- (b) Standard or transverse recorded Video Tape imposes no great problem. Good quality basic equipment is available for approximately _Stop motion and hard copy equipment could be added for about
- (c) Video Tape recorded by helical scan devices, i.e., portable units, are a real problem due to (1) the nature of the system and (2) the lack of standardization. A piece of equipment that would be capable of reading any helical scan tape would require development and would be a costly item.
- (d) Investigation thus far indicates that no equipment exists that can convert magnetic tape from one system to another system (625/50 cps to 525/60 cps, etc.). Development of this type of equipment would be costly and would probably be less than desirable due to expected loss of quality during conversion.
- (e) The pieces of equipment concerned are complex, sophisticated, special purpose, electronic devices and for optimum utility and performance will have to be operated by technical personnel who are knowledgeable of such equipment.
- 2. In view of the above mentioned items, various possible directions of action are indicated, depending upon cost, quality, requirements, risk, etc., and possible trade-offs to be considered.

Following are possible avenues of approach:

(a) Obtain high quality commercial equipment for transverse scan Video Tape with disk type stop motion and photographic hard copy

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went a observe amount o	of black box R&D interfacing and would provide
stop motion and hard	copy from any type of 2 inch transverse scan ine/60 cps and 625 scanline/50 cps). NPIC would
	lical scan capability.
manufacture and modificould easily amount type stop motion and equipment. The expectand maintenance, repl	The-shelf helical scan readers of the same rication as equipment used in the field. This to half a dozen recorders. An interfaced disk hard copy device could be added as accessory ted cost of this approach would be unpredictable, accement parts, and operation would be a consider-puipment would provide a helical Video Tape ough estimate in addition to (a) above)
helical scan tape. I	Special, single piece of equipment to handle all This approach would be expensive, have a long lead high risk item. (Nonexistent - High R&D costs)
another, i.e., 625 so transverse scan 2 inc risk, long lead time	eipment to convert one Video Tape system to can/50 cps one inch type to 525 scanline/60 cps ch tape, etc. This would be a high cost, high approach. A considerable loss of quality through pected. (Nonexistent - High R&D costs)
on the Plans and Deve the type described in	ent time, no definitive requirement has been levied clopment Staff for development of equipment of paragraph 2 (b) (c) and (d). It is therefore
Development objective appropriate manufactu	eed with the approach described in 2 (a). es are being written and will be circulated to urers. It is anticipated that development time is let will be approximately four months.
Development objective appropriate manufacturafter the contract is 4. Plans and Deconduct liaison with the other avenues of extensive development	es are being written and will be circulated to rers. It is anticipated that development time
Development objective appropriate manufacturafter the contract is 4. Plans and Deconduct liaison with the other avenues of	es are being written and will be circulated to breas. It is anticipated that development time is let will be approximately four months. Evelopment Staff personnel will continue to other governmental agencies have cognizance of approach and will be prepared to enter into more
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Development objective appropriate manufacturafter the contract is 4. Plans and Deconduct liaison with the other avenues of extensive development arise.	es are being written and will be circulated to urers. It is unticipated that development time is let will be approximately four months. Evelopment Staff personnel will continue to other governmental agencies have cognizance of approach and will be prepared to enter into more is should a firm requirement for such development
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Development objective appropriate manufacturafter the contract is 4. Plans and Deconduct liaison with the other avenues of extensive development	es are being written and will be circulated to brers. It is anticipated that development time is let will be approximately four months. Evelopment Staff personnel will continue to other governmental agencies have cognizance of approach and will be prepared to enter into more is should a firm requirement for such development. Colopel, USAF

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